

THREE NEW SPECIES OF DIPTERA.

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While making a study of some miscellaneous Diptera in the collection of the Branch of Forest Insects, the following species, which appear to be new, were found.

CHLOROPIDAE.

Madiza conicola, new species.

Male and female.—Glossy black. Antennae brownish black on outer surface, inner surface of second joint entirely and third joint mostly dark red, upper and apical edge blackish; third joint rounded. Arista brownish black, short pubescent. Arista as long, in the male, and nearly as long in the female, as width of frons at base of antennae. Palpi black. Cheek about half as high as width of third antennal joint, anterior angle produced slightly, lower half of cheek finely bristled, along upper edge of these fine bristles are several much longer bristles; vibrissae present. Frons shiny black. Female, frons at vertex slightly wider than width of eye, and at base of antennae, width equal to that of eye. A narrow area above base of antennae, reaching half way along the frons, opaque blackish. Opaque area much wider in the male and frons narrower. Ocellar triangle, in both sexes, fairly well defined, finely rugose, bare, and with a single bristle on each side. Mesonotum thickly covered with short, blackish hairs; humeral and post alar callosity each have a strong bristle. Two bristles, one stronger than the other, on the mesonotum, near each corner of the scutellum. Scutellum rounded, disk covered like mesonotum. A pair of bristles at apex and a single bristle on each side along the margin. Abdomen shiny black with a small lighter area near the base. Legs brown-black; tip of femur, base and tip of tibiae and all tarsal joints yellow; the infuscation on the middle of the front tibia is variable from a pale grayish to a brown. Wings hyaline, veins yellow; third costal section nearly or about half the length of the second; third and fourth veins parallel. Halteres whitish. Length 1.25 to 1.5 mm.

Type-locality.—Long's Ranch, Oregon, September 3, 1916. Reared November 20, 1916. Other localities are Ashland, Oregon, September 2, 1916; Quincy, California, Sept. 20, 1916. Mr. F. P. Keen, collector.

Larva of this species feed within the cones of *Abies concolor*.

Type.—Female, Allotype male, Cat. No. 21709, U. S. Nat. Mus.

SYRPHIDAE.

Chrysotoxum coloradensis, new species.

This species is near *laterale* and *pubescens*.

Male.—Head—Antennae black, shorter than head. First joint slightly shorter than second, third joint slightly longer than first and second together; bristly hairs on first two joints, black; arista deep yellow, brownish towards apex. Front shiny, brownish-black with numerous long brown hairs and a broad band of short, yellow pubescence along the eyes. Ocellar triangle shiny black, with numerous long dark hairs and a whitish pubescence across the base, front ocellus yellowish-white, basal pair quite reddish. Face pale yellow, finely pubescent and covered with numerous yellowish-brown hairs, shorter than those on the front, a black stripe reaching from antennae to the oral margin, very narrow at the antennae and much broader at the tubercle. (Sometimes this stripe is interrupted by a narrow yellow stripe between the oval margin and the facial tubercle.) Cheek yellow, with a broad, shiny, black stripe reaching from the oral margin to the eye.

Thorax black, dorsum sub-opaque, with a bronze reflection and slightly shiny along the sides; dorsum covered with numerous, yellow hairs, more reddish along the sides. In the middle are two, faint, yellowish stripes extending from half to two thirds the length of the thorax; the lateral edge has a yellow stripe broadly interrupted in back of the transverse suture. Pleura black, posterior half of mesopleura pale yellow, extending up to the base of the wing. Scutellum yellow, brownish in center; bristly hairs on basal half yellow, those on apical half, brown and slightly longer.

Abdomen mostly yellow. The lateral earina black on first, second and third segments, yellowish-brown on fourth and fifth and yellow on apical corner of all the segments except the first. First and second segments black, second with a yellow, arcuate fascia across the middle, broadly interrupted in the middle and dilated towards the outer-edge. (Extreme apical edge of segments sometimes yellow.) Third segment with a narrow black fascia entirely across the base and widening as it meets the carina; a wider black fascia near the middle extending obliquely towards, but not touching, the apical corner (the fasciae on this segment are variable in width); segments four and five have a very narrow black fascia of uneven width along the base, connecting with the earina; fourth segment has a black spot in the center and a longer one towards each apical corner; fifth segment has three black spots in a triangular form. All the black markings on the dorsum and the yellow on the apical part of the last three segments covered with numerous, short, black, bristly hairs. Venter black, three segments visible, basal segment with a narrow yellow fascia along the apical edge, broader on the ends and sometimes interrupted in the middle; middle and apical segments with a yellow fascia along the apical edge, broader at ends and two ovate yellow spots. Black, bristly hairs located

similar to those on the dorsum, with numerous longer hairs, especially down the center. Hypopygium dull yellow, with numerous, black bristly hairs and a brownish, transverse stripe across the middle of the two basal segments. Legs yellow, tarsi reddish; front and middle femora with a brownish infuscation at the base, hind femora brownish on apical half, the tip yellow. Wings faintly cinerous; costal edge lutescent on basal half and brown on apical half.

Length 12 to 13 mm.

Described from 3 males.

Type-locality.—El Paso Co., Colorado, June 7, 1914, A. B. Champlain, collector.

Type.—Male, Cat. No. 21710, U. S. Nat. Mus.

STRATIOMYIDAE.

Myxosargus nigricornis, new species.

Near *Myxosargus fasciatus*, Brauer.

Male and female.—Black, dorsum of thorax deep bronze. Antennae entirely black.

Female.—Head, front deep, shiny, blue-black, with numerous dark hairs with a silvery reflection; tubercle near the middle, weak and variable; face deep, shiny blue-black, covered with numerous, long, dark-brownish hairs with a silvery-white reflection. Thorax shiny black, dorsum microscopically rugose, not so shiny and decidedly bronze colored, with a brownish pubescence having a whitish reflection. Scutellum and spines yellow, with a narrow black area across the base of the scutellum. Abdomen shiny black, pubescence with a silvery reflection, pubescence longer on the sides of the abdomen. Halteres pale green, stem brownish at base. Legs black; front knees yellow, middle knees less yellow; apical third of front tibiae, apical half of four posterior tibiae, three basal joints of the four posterior tarsi, yellow. Wings like *Myxosargus fasciatus*, Brauer.

Male.—Like the female except the dorsum of the thorax is greenish metallic. The pubescence on the front, face, dorsum of thorax and abdomen, longer and black. Scutellum black, spines yellow. Legs entirely black except apical half of middle tibiae and two basal joints of the four posterior tarsi.

Length, Female 6 mm., Male 5.25 mm.

Type-locality.—Chain Bridge, D. C. Described from 22 females and 3 males collected June 10th to July 19, 1912, by the author. Also a female from Plummer's Island, Md., June 27, 1909, collected by Mr. W. L. McAtee.

Type.—Female, Allotype male, Cat. No. 21711, U. S. Nat. Mus.

This species was taken on low grass in a very marshy place.